## Amendments To The Claims:

Please amend the claims as shown. Applicants reserve the right to pursue any cancelled claims at a later date.

## 1. - 11. (canceled)

12. (new) A Method for controlling a fuel mixture provided for an internal combustion engine generating a flue gas stream by combusting the mixture, the engine comprising:

a catalytic converter arranged in the flue gas stream; and

a lambda probe arranged downstream of the converter relative to the fuel gas stream for providing post-cat sensor signals, the method comprising:

detecting a post-cat sensor signal by the lambda probe;

acquiring at least one subsequent post-cat sensor signal chronologically succeeding the post-cat sensor signal by the lambda probe;

generating a comparative value by comparing the detected subsequent post-cat sensor signal to the acquired post-cat sensor signal;

changing the mixture if the comparative value is greater than or equal to a predetermined value; and

generating a number of chronologically succeeding comparative values by repeating the detecting and the acquiring and checking a trend of the succeeding comparative values.

- 13. (new) The method according to claim 12, wherein the comparative value is a difference value between the post-cat sensor signal and the subsequent post-cat sensor signal.
- 14. (new) The method according to claim 12, wherein checking the trend comprises calculating a calculated value based on the post-cat and the subsequent post cat senor signals.

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15. (new) The method according to claim 14, wherein the methode further comprises a further

changing the mixture if the number of succeeding comparative values exeeds a minimum

number and the calculated value is less than the predetermined value.

16. (new) The method according to claim 14, wherein the calculating includes defining a

minimum and a maximum post-cat sensor signals and dividing a difference value between the

detected post-cat sensor signal and the minimum post-cat sensor signal by a difference value

between the maximum post-cat sensor signal and the minimum post-cat sensor signal.

17. (new) The method according to claim 12, wherein changing the mixture includes changing a

frequency or an amplitude of a forced activation of the catalytic converter.

18. (new) The method according to claim 12, the flue gas stream comprising segments having

rich and lean exhaust gas packets, wherein changing the mixture includes a suppression of the

lean exhaust gas packets.

19. (new) The method according to claim 16, wherein defining the minimum and the maximum

post-cat sensor signals is based on a current mass air flow or an engine speed.

20. (new) The method according to claim 12, wherein checking the trend includes comparing the

subsequent post-cat sensor signals used for generating the number of the succeeding comparative

values.

21. (new) The method according to claim 20, wherein checking the trend is stopped if the

compared subsequent post-cat sensor signals substantially equal.

22. (new) The method according to claim 12, wherein the predetermined value or the number of

succeeding comparative values is based on at least one operating point of the engine.

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- 23. (new) The method according to claim 22, wherein the operating point is based on a current exhaust gas composition of the flue gas stream.
- 24. (new) The method according to claim 15, wherein the minimum number is based on at least one operating point of the engine.
- 25. (new) The method according to claim 24, wherein the operating point is based on a current exhaust gas composition of the flue gas stream.
- 26. (new) The method according to claim 12, wherein generating the number of succeeding comparative values or checking the trend is executed during a predetermined period.
- 27. (new) The method according to claim 12, wherein generating the number of succeeding comparative values or checking the trend is executed during a period based on the segments of the flue gas stream.
- 28. (new) The method according to claim 12, wherein generating the number of succeeding comparative values or checking the trend is based on an oxygen mass balance of the combustion.
- 29. (new) A control unit for controlling a fuel mixture provided for an internal combustion engine generating a flue gas stream by combusting the mixture, the engine comprising:
  - a catalytic converter arranged in the flue gas stream; and
- a lambda probe arranged downstream of the converter relative to the fuel gas stream for providing post-cat sensor signals, the controlling comprising:

detecting a post-cat sensor signal by the lambda probe;

acquiring at least one subsequent post-cat sensor signal chronologically succeeding the post-cat sensor signal by the lambda probe;

generating a comparative value by comparing the detected subsequent post-cat sensor signal to the acquired post-cat sensor signal;

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changing the mixture if the comparative value is greater than or equal to a predetermined value; and

generating a number of chronologically succeeding comparative values by repeating the detecting and the acquiring and checking a trend of the succeeding comparative values, the control unit is

operatively connectable to the lambda probe for detecting the post-cat sensor signal and acquiring the subsequent post-cat sensor signal.

- 30. (new) The control unit according to claim 29, the control unit is adapted such the detecting and the acquiring is executable by reading the post-cat and the subsequent post-cat sensor signals.
- 31. (new) The control unit according to claim 29, the control unit is configured for generating the comparative value, changing the mixture, generating the number of succeeding comparative values or checking the trend.